

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Applicant: City of Las Vegas Public Works
333 N. Rancho Road
Las Vegas, NV 89122

Permit Number: NV0024058

Location: Stormdrain Construction
Oakey Boulevard, between Cahlan Drive and Valley View Boulevard
Las Vegas, Clark County, Nevada 89102
Township 21S, Range 61E, Section 05

Latitude: 36° 09' 06" N
Longitude: 115° 10' 45" W

Flow: 0.25 MGD (30-Day Average)

Corrective Actions Sites: There are four (4) Bureau of Corrective Actions remediation sites within one mile of the subject location. The case officers for these sites have indicated that no adverse effects at the remediation sites from the proposed activity are expected. The four sites are:

Project ID #	Site Number	Facility Name	Corrective Action Type (Media/Contaminant)
2127	8-000436	7-Eleven 29646	Soil & Groundwater/Gasoline
2010	H-000533	Payless Drug	Groundwater/Solvents
2472	8-000655	ARCO/Terrible Herbst 118	Soil/Gasoline
3077	8-001003	Texaco Station	Groundwater/Gasoline

Wellhead and Drinking Water Supply Protection: The construction location is outside the 3,000 foot but within the 6,000' foot Drinking Water Protection Area (DWPA) around several public water supply wells, as listed in the table below. There is no currently established Wellhead Protection Area (WHPA) for the location.

Public Water Supply		Well Names
NDEP Public Water Supply Designation	Public Water Supply Name	
NV0000090	Las Vegas Valley Water District	Wells 7A, 82, 83, 84
NV0000126	Shetland Water District	Well 1
NV0000129	Rancho Cooperative Water Company	North Well

General: The City of Las Vegas is proposing to construct a section of stormdrain along Oakey Boulevard, between Valley View Boulevard and Cahlan Drive. The designated work area is approximately 3500 feet (0.66 mile) long. Geotechnical study of the project area indicates that proposed work excavations will intercept the groundwater table, and dewatering of the excavations will be required. Dewatering wells and sumps will be used, and will be advanced as the work excavation advances. The Applicant has indicated that no more than one well/sump will be required at any one time. Extracted water will be discharged to four storm drain drop inlets just west of Cahlan Drive on Oakey Boulevard, near the east end of the project location. Receiving water is the Las Vegas Wash.

Discharge Flow and Characteristics: The Applicant has indicated that discharge is expected to be below 150 gallons per minute (gpm). The Division has set the Daily Maximum permit limit at 0.25 million gallons per day (MGD), based on the discharge fee category. Construction and dewatering is anticipated to be complete in approximately 12 months. Water quality analyses indicate that groundwater in the construction area is not impacted by petroleum hydrocarbons or volatile organic compounds.

Receiving Water Characteristics: The dewatering system will discharge into a City of Las Vegas stormdrain inlet, which eventually discharges to the Las Vegas Wash. Water quality standards for the Las Vegas Wash are specified in NAC 445A.199. The requirements to maintain existing higher quality waters apply.

Proposed Discharge Limits: Specific sampling and monitoring requirements are listed below:

Table I.A.1. Discharge Limitations, Sampling and Monitoring Requirements

Parameters	Discharge Limitations		Monitoring Requirements		
	30-Day Average	Daily Maximum	Sampling Locations	Monitoring Frequency	Monitoring Type
Flow ¹ (gpm)	---	M&R	a	Continuous	Flow meter
Flow ¹ (MGD)	---	0.250	a	Continuous	Calculate
pH ² (S.U.)	---	6.5 - 9.0	a	Monthly	Discrete
TDS ³ (mg/l)	---	M&R	a	Monthly	Discrete
TPH ⁴ (mg/l)	---	1.0	a	Quarterly	Discrete
VOC ⁵ (mg/l)	---	M&R	a	Quarterly	Discrete

NOTES:

1. Monitor continuously and report quarterly, the total daily discharge rate from all wells.
2. Monitor monthly and report quarterly, the minimum, maximum and 30-day average pH values.
3. Sample monthly and report quarterly, the maximum TDS concentration values.
4. Sample monthly and report all results quarterly. Report the full range of hydrocarbons, C6-C40, purgeable and extractable. Analyze using EPA Methods 8260B and 8015B.
5. Sample monthly, and report all results for all parameters quarterly. Analyze using EPA Method 8260B.

gpm: gallons per minute
 M&R: Monitor and Report
 mg/l: milligrams per liter
 SV: Single Value

MGD: Million gallons per day
 S.U.: standard pH units
 µg/l: micrograms per liter
 TDS: Total Dissolved Solids

TPH: Total Petroleum Hydrocarbons

VOC: Volatile Organic Compounds

Rationale for Permit Requirements: The Division has established the monitoring requirements in Table 1 above to ensure that downstream water quality is not degraded as a result of project activities.

Flow: The Daily Maximum permit limit is set at 0.25 MGD. The permit limit is based on the appropriate fee category.

pH: The pH permit limit of 6.5 - 9.0, standard pH units is stipulated in NAC 445A.199.

TDS: The Permittee is required to monitor and report TDS concentrations. The shallow groundwater with naturally occurring elevated TDS levels would flow to the Wash, if it was not intercepted by the dewatering system. Therefore, the TDS standard is not applied to dewatering discharges in this area. This permit is for the interception and passage of groundwater and thus is exempted under the Colorado River Basin Salinity Control Forum's policy on groundwater interception.

TPH: The permit limit for TPH is set at 1.0 mg/L. The limit is the State standard for remediation projects.

VOC: The Permittee is required to monitor and report VOC concentrations, to assess the possibility that dewatering activities could draw VOCs from existing contaminant plumes onto the construction site.

Schedule of Compliance: The Permittee shall implement and comply with the provisions of the schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications which the Administrator may make in approving the schedule of compliance.

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
- b. **No less than seven days prior to the first discharge authorized by this permit**, the Permittee shall submit written notice of commencement of discharge.
- c. **By August 1, 2011**, the Permittee shall submit to the Division, for review and approval, an Operations & Maintenance (O&M) Manual, prepared in accordance with appropriate sections of guidance document WTS-2, *Minimum Information Required for an Operation and Maintenance Manual for a Wastewater Treatment Plant*: The O&M Manual shall also include a specific **Fluid Management/Discharge Plan**, including Best Management Practices (BMPs) to be employed, for the proposed shallow groundwater dewatering and discharge system. The O&M Manual shall also include a **Sampling and Analysis Plan (SAP)**, which will summarize the sampling, analytical, monitoring, notification procedures and data reporting to be conducted for the Outfall 001 sampling location.

All schedule of compliance submittals and evidence of compliance documents shall be submitted to the Bureau Compliance Coordinator at the following address:

**Department of Conservation and Natural Resources
Nevada Division of Environmental Protection
Bureau of Water Pollution Control
ATTN: Compliance Coordinator
901 S. Stewart Street, Suite 4001
Carson City, Nevada 89701**

Proposed Determination: The Division has made the tentative determination to issue the proposed permit for a period of five (5) years.

Procedures for Public Comment: The Notice of the Division's intent to issue a NPDES permit for a five-year period, authorizing this facility to discharge into the Nellis Flamingo Storm Drain (NLFL0131, part of the Clark County storm drain system which discharges into the Flamingo Wash), with eventual discharge into the Las Vegas Wash, subject to the conditions contained within the permit, is being sent to the **Las Vegas Review-Journal** for publication. The Notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of thirty (30) days following the date of publication of the public notice in the newspaper. The comment period can be extended at the discretion of the Administrator. The deadline date and time by which all comments are to be submitted (via postmarked mail or time-stamped faxes, e-mails, or hand-delivered items) to the Division is **July 11, 2011 by 5:00 P.M.**

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Prepared by: Janine O. Hartley, P.E.
Date: Draft: June 2011
Final: